

Saved With a Click: Saving on Entertainment While Respecting Copyright

Presented By

- National Capital FreeNet
- Ottawa Public Library
- City of Ottawa



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Entertainment has Changed



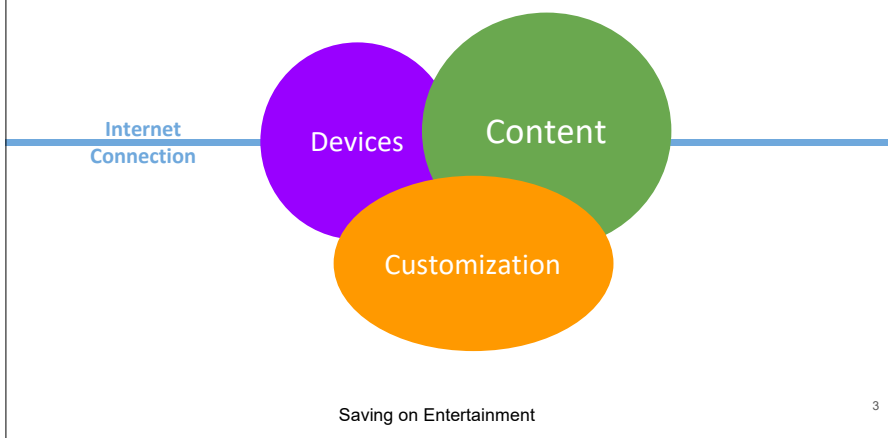
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Today's Entertainment Experience



Internet Connection



How much internet do you need?

NCF Peak Usage Calculator: peakuse.ncf.ca

Netflix Recommendations:

- 0.5 Megabits per second - Required broadband connection speed
- 1.5 Megabits per second - Recommended broadband connection speed
- 3.0 Megabits per second - Recommended for SD quality
- 5.0 Megabits per second - Recommended for HD quality
- 25 Megabits per second - Recommended for Ultra HD quality

<https://help.netflix.com/en/node/306>

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Devices



Chromecast

- Pricing: from \$45 to \$90 for the device.
- Features are built into some SmartTVs (Sony, etc).
- Some Apps have Cast support even if the Smart TV OS does not (usually Youtube and Netflix).
- Largest app and services supported:
https://store.google.com/product/chromecast_apps
 (Some of the apps require a paid subscription)
- Often requires another device like a smartphone or tablet to initiate video streaming.
 - You can also cast from a chrome browser on the same wifi network:
<https://support.google.com/chromecast/answer/7249696?hl=en-CA>
- Available from [BestBuy](#), [Walmart](#), [Google Store](#), etc



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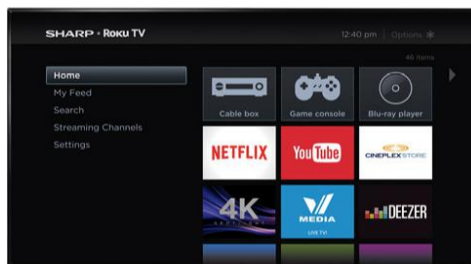
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Devices



Roku

- Pricing: from \$45 to \$119 for the device.
- Built into some SmartTVs (Insignia, TCL, Sharp, etc)
- Access to many apps and services: Netflix, Amazon Prime Video, Youtube, CBS All Access, etc
 (Some of the apps require a paid subscription)
- User-friendly interface with simple navigation.
- Available from [Walmart](#), [BestBuy](#), [Roku](#). etc



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Devices



Apple Tv

- Pricing: from \$199 to \$249 for the device.
- Very user-friendly interface and great application support.
- Encourages some Apple ecosystem buy-in
 - Cannot use an android device to initiate videos.
- Access to many apps and services: Netflix, Amazon Prime Video, Youtube, CBS All Access, etc
(Some of the apps require a paid subscription)
- Available from [Walmart](#), [BestBuy](#), [Apple](#). etc



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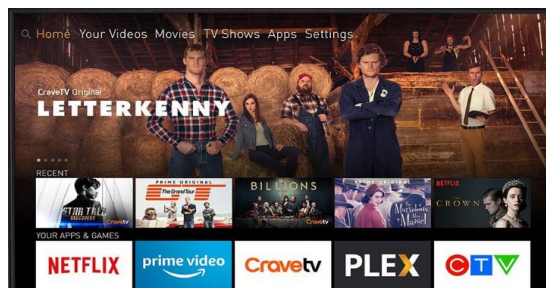
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Devices



Amazon Fire Tv

- Pricing: from \$50 to \$70 for the device.
- Built into some SmartTVs (Toshiba, etc)
- Access to many apps and services: Netflix, Amazon Prime Video, Youtube, CBS All Access, etc
(Some of the apps require a paid subscription)
- User-friendly interface with simple navigation.
- Available from [Walmart](#), [BestBuy](#), [Amazon](#) etc



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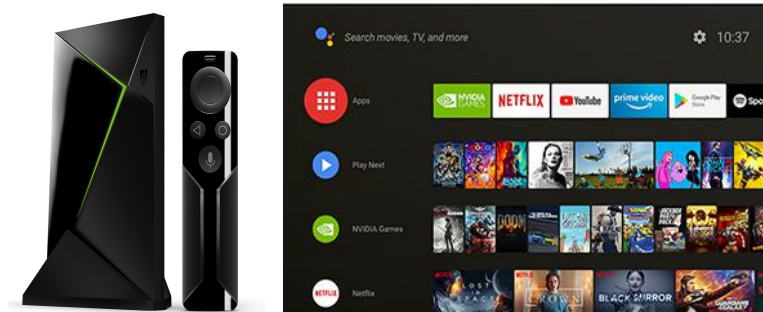
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Devices



Nvidia Shield Tv

- Pricing: from \$199 to \$279 for the device.
- High performance Android Tv Streaming Box with gaming capabilities.
- Supports Google Cast. Largest app and services supported:
https://store.google.com/product/chromecast_apps
 (Some of the apps require a paid subscription)
- Available from [BestBuy](#), [Newegg.ca](#), [Amazon](#), etc



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Devices



Android Tv Devices & Kodi Boxes

- Pricing ranges from about \$50 to \$200+
- Comes preloaded with either Android Tv OS or Kodi which gives access to many apps and services.
 (Some of the apps require a paid subscription)
- Requires a higher level of configuration and self support.
- Very customizable but can get confusing
- Interface comes in many shapes and configurations. You will have to find the best fit for you.
- **Caution:** Although it is legal to purchase devices, some use cases may infringe on copyrights.



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Devices



Other Streaming Device Options

- Gaming Consoles
 - Xbox One S - starting from \$229 (Black friday offer)
 - Xbox One X - starting from \$599
 - Nintendo Switch - starting from \$379
 - Sony PS4 - starting from \$329
 - Sony PS4 Pro - starting from \$499
- Connect a computer to your TV via HDMI cable



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Devices



OTA Digital Tv Tuners and Antennas



- Very limited channel options. Usually about 8 to 16.
 - In most advertised channels may not be available due to the range limitations of the antennas
- These antennas and tuners will allow you to watch tv channels that are broadcast over the air.
- You can use Tvfool.com to see what channels may be available to you.
- Requires a higher level of configuration and self support.



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Ottawa Public Library Resources

OPL's Online Resources: <https://bibliottawalibrary.ca/en/databases/search-all>

OPL's Apps: <https://bibliottawalibrary.ca/en/library-apps-0>

Examples:

<https://meet.libbyapp.com/>

Ebooks and audiobooks

<https://ottawa.freegalmusic.com/browse>

Unlimited music streaming and download up to 5 songs per week.

<https://www.hoopladigital.com/>

Customers can stream or temporarily download up to 4 titles per month.



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CBC Streaming Apps

On Android:

<https://play.google.com/store/apps/dev?id=6544434592284264277&hl=en>

On IOS: <https://itunes.apple.com/ca/developer/cbc/id325946770>

Some of the apps Included:

- CBC Tv
- CBC Mobile
- CBC Sports
- CBC News
- CBC Music
- CBC Radio
- [Curio](#) (Requires a library membership)

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TV Networks Online

- [A & E](#)
- [APTN](#)
- [Bet](#)
- [Bloomberg News](#)
- [BNN](#)
- [Bravo](#)
- [Cartoon Network](#)
- [CBC](#)
- [CityTV](#)
- [CMT](#)
- [CPAC](#)
- [Crackle](#)
- [CTV](#)
- [Discovery Channel](#)
- [Family](#)
- [Fashion Television](#)
- [Food Network](#)
- [Global News](#)
- [Global TV](#)
- [Gusto TV](#)
- [HGTV](#)
- [History](#)
- [MTV](#)
- [Much](#)
- [NFL](#)
- [OMNI](#)
- [Outdoor Life Network](#)
- [ShowCase](#)
- [Slice](#)
- [Space](#)
- [Teletoon](#)
- [The Comedy Network](#)
- [Twitch](#)
- [The Shopping Channel](#)
- [TMZ](#)
- [Treehouse](#)
- [Tubi TV](#)
- [VICE](#)
- [Viki](#)
- [W Network](#)
- [YTV](#)
- [TVO Kids](#)

Source: <https://maplemoney.com/watch-free-tv/>

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Top Streaming Apps

- [Youtube](#)
 - From \$0 to \$18 per month
 - Largest video library online but difficult to find traditional Tv programming
 - Paid tier available with music streaming options and some original programming.
- [Netflix](#)
 - From \$8.99 to \$13.99 per month
 - Netflix Originals: <https://www.netflix.com/ca/originals>
- [Amazon Prime Video](#)
 - \$7.99 per month
 - Includes Thursday Night Football
- [CBS All Access](#)
 - \$5.99 per month
 - Shows: <https://www.cbsallaccess.ca/shows/>
- [Crave Tv](#)
 - 2 Tier subscription
 - \$9.99 per month for CraveTv
 - \$19.99 per month for Crave + Movies + HBO + 6 Live Channels

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Top Free Video Streaming Services

- [Crackle](#) (not available from browser but on some streaming devices)
- [PopcornFlix](#)
- [Pluto.Tv](#) (library of free online tv services)
- [Kanopy](#) (has OPL partnership)
- [tubi](#)
- [Viewster](#)
- [SnagFilms](#)
- [ClassicCinemaOnline](#)

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Music Streaming Apps with free tiers

- [Spotify](#)
- [Youtube Music](#) and [Google Play Music](#) - both from Google
- [Soundcloud](#) - Free music and podcast streaming
- [Deezer](#)
- [Tuneln](#) - Free Internet Radio Streaming
- [iHeartRADIO](#)
- [SlackerRadio](#)
- [Freemusic](#) (free with OPL membership)

Some Free and Legal Music Download Sites:

- [Amazon Free Music](#)
- [NoiseTrade](#)
- [SoundCloud](#)
- [Jamendo](#)
- [Live Music Archive](#)
- [Musopen](#)
- [ReverbNation](#)

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Live Sports Streaming Apps

- [DAZN](#)
 - NFL RedZone, MLS Live, MLB Network, UEFA Champions League, Serie A, LaLiga, MMA, Boxing and much more
 - \$20/month or \$150/year
- [NBA League Pass](#)
 - \$144.99
 - Lower packages available for single team or single game (\$6.99)
- [NHL Live](#)
 - \$199 for full season or \$29.99/month
- [BEIN Sports](#)
 - \$19.95/month or \$209.95/year
- Youtube Sport Channel
 - Examples:
 - [ESPN](#)
 - [NBA](#)
 - [NFL](#)
 - [NHL](#)
 - [WNBA](#)
 - [Sportsnet](#)
 - [TSN](#)
 - [MLB](#)

Usually have highlights within a few hours of the game being completed.

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Paying for Streaming Apps without a credit card

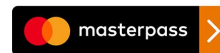
1. Gift cards
(Netflix, Amazon, Google Play, etc)



2. Prepaid Credit Cards



3. Using a 3rd party intermediary where available.
Examples
 - a. Paypal
 - b. Visa Checkout
 - c. Masterpass by Mastercard



1. Using visa debit
(limits credit risk of card information being stolen)



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Customization



Andrew Vs André

- | | | | |
|-----------------------------|----------|------------------|----------|
| • Netflix | \$13.99 | • Netflix | \$11.99 |
| • Crave + Movies + HB | \$19.99 | • Amazon Prime | \$7.99 |
| • DAZN | \$20 | • Spotify | \$9.99 |
| • Youtube Music (Paid Tier) | \$14.99 | • CBS All Access | \$5.99 |
| ◦ Totals | ~\$68.97 | • Apple Music | \$9.99 |
| | | ◦ Totals | ~\$45.96 |

Also uses free apps like Youtube, Comedy Network and Libby

Also uses free apps like Youtube, Comedy Network and Libby

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Customization



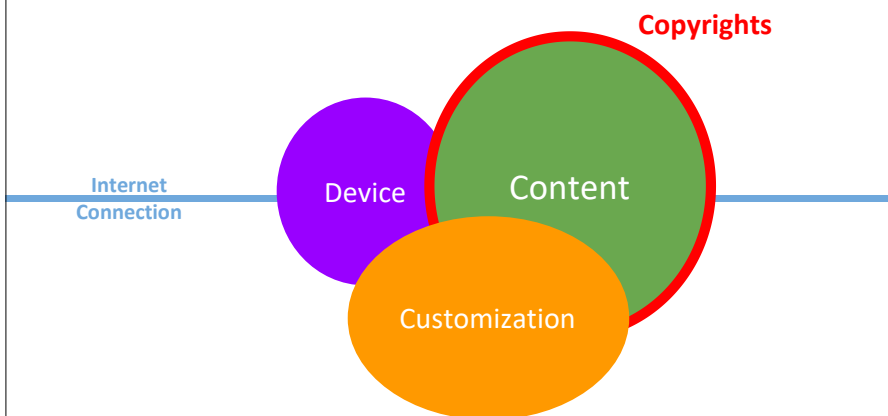
1. More options does not always mean less costs
2. You get to pick and choose what you want
3. Subscription management is more important now
4. There are great free options to pick from as your main entertainment options or to supplement your paid subscriptions
5. Use trial and return periods wisely



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Today's Entertainment Experience



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Copyrights



Should I care about copyright laws?

Yes if:

- You have copyright material that you wish to protect
- You use material from the Internet that may be copyright protected, without permission (music, photos, games, etc.)
- You allow others to access the Internet through your connection

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Copyrights



How is copyright infringement tracked?

- Downloads (including streaming) from websites require a court order to search server logs
- With BitTorrent and other Peer-to-Peer file sharing, there is no central server.
 - Files hosted on users' computers
 - Users connect to each other to download files
 - Central server lists files available, but does not host any files directly
- Clients gathered in a swarm
- Everyone can see everyone else on it
- Enforcement agencies join a swarm and begin downloading a file
- Any client that exchanges bytes with them can be identified as a possible copyright infringer

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Copyrights



How does the Copyright Infringement Notification System Work?

Notice and Notice System

Copyright holder emails ISP

Email is parsed by NCF's automated script

Script checks logs — who had IP address at timestamp

Complaint forwarded to member w explanation

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Copyrights



Protecting Your Privacy

- Please be aware, your ISP forwards notices as they are received, and does not verify the accuracy of the information contained
- Some enforcement agencies have been known to provide misleading information, to frighten users into a settlement
- **Caution:** Contacting the rights holder will make them aware of your identity, which they would otherwise need a court order to obtain.

NO personal details
are sent back to
copyright holder
without a court order

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Copyrights



What can I do to avoid infringement notices?

- Best way to avoid — prevent infringements by your account
- If you have been downloading from P2P services, or other pirated sources, stop immediately
- If you have not, find out how they occurred, and take steps to prevent it
- Secure your wireless Network



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Thank You



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